

INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP 03/13406

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C07H17/04 C07D309/30 C07D309/32 C07D309/36 A01N43/16
A61K31/7048 A61P35/00 A61P31/04

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C07H C07D A01N A61K A61P

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, CHEM ABS Data, BEILSTEIN Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	KOSKELA S ET AL: "TWO BIOACTIVE COMPOUNDS AND A NOVEL CHALCONE SYNTHASE-LIKE ENZYME IDENTIFIED GERBERA HYBRIDA" ACTA HORTICULTURAE, INTERNATIONAL SOCIETY FOR HORTICULTURAL SCIENCE,, NL, vol. 560, 2001, pages 271-274, XP008033556 ISSN: 0567-7572 the whole document	1-5, 15-17,21
X	S. GAFNER ET AL.: "Phenols, acetylenes, and sesquiterpene lactones from Inulanthera nuda" HELVETICA CHIMICA ACTA, vol. 81, 1998, pages 2062-2071, XP002292521 Introduction compound 9	1-3,6, 14-18,21
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☒ Further documents are listed in the continuation of box C.

☐ Patent family members are listed in annex.

* Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search

25 August 2004

Date of mailing of the international search report

09. 12. 2004

Name and mailing address of the ISA

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>WEPPLO P: "ISOLATION AND IDENTIFICATION OF PLANT GROWTH INHIBITORS FROM LEAVES OF THE AMERICAN CRANBERRY (VACCINIUM MACROCARPON)"</p> <p>ACS SYMPOSIUM SERIES, WASHINGTON, DC, US, vol. 330, 1987, pages 328-333, XP008033555</p> <p>ISSN: 0097-6156</p> <p>abstract</p> <p>compound 3</p>	1-3,5, 15-17
X	<p>-----</p> <p>A. KANAI ET AL.: "Synthetic studies directed toward the assembly of the C-glycoside fragment of the telomerase inhibitor D8646-2-6"</p> <p>ORGANIC LETTERS, vol. 5, 2003, pages 2837-2839, XP002292522</p> <p>compound 5</p>	1-3,6,30
X	<p>-----</p> <p>A. NUMATA ET AL.: "Plant constituents biologically active to insects. VI. Antifeedants for larvae of the yellow butterfly, Eurema hecabe mandarina, in Osmunda japonica"</p> <p>CHEM. PHARM. BULL., vol. 38, 1990, pages 2862-2865, XP002292523</p> <p>page 2862</p> <p>compounds 6, 6a</p> <p>-----</p>	1-3,5, 15-17

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International application No.
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Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☒ Claims Nos.: 1-6, 14-30 (all in part)
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
see FURTHER INFORMATION sheet PCT/ISA/210
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

See annex

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.2

Claims Nos.: 1-6, 14-30 (all in part)

The initial phase of the search revealed a very large number of documents relevant to the issue of novelty. So many documents were retrieved that it is impossible to determine which parts of the claim(s) may be said to define subject-matter for which protection might legitimately be sought (Article 6 PCT). For these reasons, a meaningful search over the whole breadth of claims 1-6, 14-30 is impossible. Consequently, the search has been restricted to: the compounds of formula (1) of claim 1, when R1 is a saccharyl moiety at least one of R2, R3 or R4 must be C1-6alkyl.

The applicant's attention is drawn to the fact that claims relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure. If the application proceeds into the regional phase before the EPO, the applicant is reminded that a search may be carried out during examination before the EPO (see EPO Guideline C-VI, 8.5), should the problems which led to the Article 17(2) declaration be overcome.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-6 (in part), 7 (in full), 8-10 (in part), 11-13 (in full), 14-30 (in part)

Compounds of formula (1) of claim 1 where R1 is a saccharyl moiety, hydroxyl-protected acetate derivatives thereof or amino derivatives thereof, and uses, compositions and methods pertaining thereto.

2. claims: 1-6 (in part), 8-10 (in part), 14-30 (in part)

Compounds of formula (1) of claim 1 where R1 is a hydroxy-substituted cyclohexyl moiety, hydroxyl-protected acetate derivatives thereof or amino derivatives thereof, and uses, compositions and methods pertaining thereto.
